



#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Cortland O. Dugger

Serial No. 08/990,757

Filed: December 15, 1997

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For: PRODUCTION OF CATIONICALLY-HOMOGENEOUS

NANOSTRUCTURED REFRACTORY OXIDES AT REDUCED TEMPERATURES

Examiner: Steven Bos

Group Art Unit 1754

### **DIVISIONAL APPLICATION**

Honorable Commissioner of Patent and Trademark Office Washington, D.C. 20231

Sir:

This Divisional Application is a continuation-in-part (CIP) of U.S. Application Ser. No. 08/990/757, filed December 15, 1997; which in turn is a CIP of U.S. Application Ser. No. 08/294,813, filed August 25, 1994; which in turn is a CIP of PCT Application PCT/US93/01846, filed March 1, 1993; which in turn is a CIP of U.S. Application Ser. No. 07/843,218, filed February 28, 1992; now abandoned. The applicant is claiming the benefits of all the above filing dates.

A small entity utility filing fee check of \$380 and a Declaration For Utility Patent Application (37 CFR 1.63) are enclosed.

### IN THE CLAIMS:

1. A process for producing a refractory oxide which comprises (a) reacting at least one metal oxide reactant and an aqueous hydrogen fluoride solution to produce either a slurry-blended dispersion which produces a fully-hydrated, cationically-homogeneous and nanostructured colloidal mixture or a solution; (b) removing the liquid from either the colloidal mixture or solution to form a dried product; (c) heating the dried product to produce a solid state metal hydroxyfluoride; (d) further heating the thus-produced metal hy-

droxyfluoride to a higher temperature at which it chemically decomposes, by heat alone, into a cationically-homogeneous nanostructured solid state metal oxyfluoride; and performing one of the following heating steps: (i) heating the thus-produced metal oxyfluoride to a solid state decomposition-temperature at which it chemically decomposes, by heat alone, into a cationically-homogeneous nanostructured solid state refractory oxide; or, (ii) heating the thus-produced metal oxyfluoride to a molten state decomposition-temperature at which it chemically decomposes, by heat alone, into a cationically-homogeneous nanostructured solid state refractory oxide; or, (iii) heating the thus-produced metal oxyfluoride to a vapor state decomposition-temperature at which it chemically decomposes, by heat alone, into a cationically-homogeneous nanostructured solid state refractory oxide.

2. The process of claims 1, wherein the reactants for step (a) of comprise at least one metal oxide and an aqueous hydrogen fluoride solution.

Respectfully submitted,

Cortland O. Dugger

12600 Westover Ct.

Upper Marlboro, MD 20772

(301) 627-5268

Encl:

Filed: February 16, 2000

# Corrected Submission - Oct. 23,2000

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- Cross References to Related Applications	
- Statement Regarding Fed sponsored R & D	c. Statement verifying identity of above copies
- Reference to Microfiche Appendix	ACCOMPANYING APPLICATION PARTS
- Background of the Invention	
- Brief Summary of the Invention	7. Assignment Papers (cover sheet & document(s))
- Brief Description of the Drawings (if filed)	8. 37 C.F.R.§3.73(b) Statement Power of Attorney
- Detailed Description	
- Claim(8)	9. English Translation Document (If applicable)
- Abstract of the Disclosure	10. Information Disclosure Copies of ID8 Statement (IDS)/PTO-1449 Citations
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PTO/SB/21 (6-98) Please type a plus sign (+) inside this box Approved for use through 09/30/2000. OMB 0651-0031 Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. **Application Number** TRANSMITTAL Filing Date **FORM** First Named Inventor Group Art Unit (to be used for all correspondence after initial filing) **Examiner Name** Total Number of Pages in This Submission Attorney Docket Number ENCLOSURES (check all that apply) After Allowance Communication Assignment Papers (for an Application) Fee Transmittal Form to Group Appeal Communication to Board Fee Attached Drawing(s) of Appeals and Interferences Appeal Communication to Group Amendment / Response Licensing-related Papers (Appeal Notice, Brief, Reply Brief) Petition Routing Slip (PTO/SB/69) After Final and Accompanying Petition **Proprietary Information** Petition to Convert to a Affidavits/declaration(s) Status Letter Provisional Application Power of Attorney, Revocation Change of Correspondence Address Additional Enclosure(s) Extension of Time Request (please identify below) **Terminal Disclaimer Express Abandonment Request** Small Entity Statement Information Disclosure Statemen Request for Refund Certified Copy of Priority Document(s) Remarks Response to Missing Parts/. Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Individual name Signature Date CERTIFICATE OF MAILING I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date: Typed or printed name Date Signature

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		Application Number		09/505,215			
TRANSMITTAL FORM		Filing Date		February 16,2000			
		First Named Inv	entor	09/505,215 February 16,2000 CORTLAND O. Dugger			
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### UTILITY PATENT APPLICATION **TRANSMITTAL**

Attorney Docket No. First Inventor or Application Identifier Title

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))

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Patent fees are subject to annual revision.	First Named Inventor	CORTLAND O. DUGGER				
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1. BASIC FILING FEE	117 870 217 435 Extension for reply within third month	
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106 310 206 155 Design filing fee	120 300 220 150 Filing a brief in support of an appeal	
107 480 207 240 Plant filing fee	121 260 221 130 Request for oral hearing	
108 760 208 380 Reissue filing fee	138 1,510 138 1,510 Petition to institute a public use proceeding	
114 150 214 75 Provisional filing fee	140 110 240 55 Petition to revive - unavoidable	
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Date Aug, 13,2001 Signature

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## UTILITY PATENT APPLICATION TRANSMITTAL

Attorney Docket No.

First Inventor or Application Identifier 09/505, 2/5

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